



PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Appl. No. : 10/675,943  
Atty Dkt No. : 100203850-1 (32939/US)  
Applicants : Doron SHAKED; Renato KESHET  
Filed : October 2, 2003  
Title : ROBUST RECURSIVE ENVELOPE OPERATORS FOR FAST RETINEX-TYPE  
PROCESSING

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**INFORMATION DISCLOSURE STATEMENT**

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

In accordance with 37 C.F.R. §§ 1.56 and 1.97 through 1.98, applicants wish to make known to the Patent and Trademark Office the references set forth on the attached form PTO-1449 (copies of the cited references, as required under 37 C.F.R. § 1.98, are enclosed). Although the aforesaid references are made known to the Patent and Trademark Office in compliance with applicants' duty to disclose all information they are aware of which is believed relevant to the examination of the above-identified application, applicants believe that their invention is patentable.

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Please acknowledge receipt of this Information Disclosure Statement and kindly make the cited references of record in the above-identified application.

Respectfully submitted,

DORSEY & WHITNEY LLP

*Daniel E. Fisher*

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Registration No. 34,162

*2/9/04*

Date

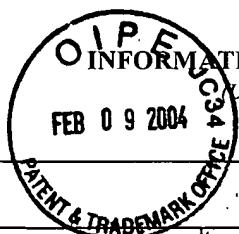
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Enclosures:

Form PTO-1449  
Cited References (30)

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FORM PTO-1449  
(REV. 7-80)U.S. DEPARTMENT OF COMMERCE  
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GROUP ART UNIT

## U.S. PATENT DOCUMENTS

*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	AA	4,384,336	05/17/1983	Frankle et al.	382	49	
	AB						

## FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
							YES	NO
	AC							

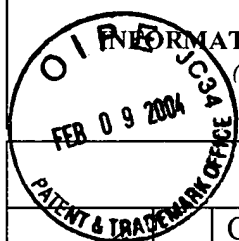
## OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

✓	AD	A. Blake, "Boundary Conditions of Lightness Computation in Mondrian World," <i>Computer Vision Graphics and Image Processing</i> , Vol. 32, pp. 314-327, 1985
✓	AE	D. Barash, "A Fundamental Relationship Between Bilateral Filtering, Adaptive Smoothing, and the Nonlinear Diffusion Equation," <i>IEEE Trans. on PAMI</i> , Vol. 24, pp. 844-847, 2002
✓	AF	M. J. Black et al., "Robust Anisotropic Diffusion," <i>IEEE Trans. on Image Proc.</i> , Vol. 7, pp. 421-432, 1998
✓	AG	P. J. Burt et al., "Fast Filter Transforms for Image Processing," <i>Computer Graphics and Image Processing</i> , Vol. 6, pp. 20-51, 1981
✓	AH	P. J. Burt et al., "The Laplacian Pyramid as a Compact Image Code," <i>IEEE Trans. on Communication</i> , Vol. 31, pp. 532-540, 1983
✓	AI	R. Deriche, "Using Canny's Criteria to Derive a Recursively Implemented Optimal Edge Detector," <i>Int. J. of Computer Vision</i> , Vol. 1, pp. 167-187, 1987
✓	AJ	J. M. DiCarlo et al., "Rendering High Dynamic Range Images," <i>Proc. SPIE</i> , Vol. 3965, pp. 392-401, 2000
✓	AK	L. Dorst et al., "Morphological Signal Processing and the Slope Transform," <i>Signal Processing</i> , Vol. 38, pp. 79-98, 1994
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✓	AM	M. Elad, "On Origin of the Bilateral Filter and Ways to Improve It," <i>IEEE Trans. on Image Processing</i> , Vol. 11, pp. 1141-1151, 2002

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\* EXAMINER: Initial if reference considered, whether or not criteria is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant(s).

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## OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

BA

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R. Sobol, "Improving the Retinex Algorithm for Rendering Wide Dynamic Range Photographs," *Proc. of SPIE*, Vol. 4662, pp. 341-3487, 2002

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